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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,816	01/21/2005	Don Holmevik	85144-102/RWD	3750
7:	590 09/21/2006		EXAMINER	
Ryan W Dupuls Ade & Company			NGUYEN, NINH H	
1700 360 Main			ART UNIT	PAPER NUMBER
Winnipeg Man	itoba, R3C 3Z3	R3C 3Z3	3745	
CANADA			DATE MAILED: 09/21/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
10/521,816 HOLMEVIK ET AL.					
Office Action Summary	Examiner	Art Unit			
	Ninh H. Nguyen	3745			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL	VIC CET TO EVOIDE A A	IONITH(S) OR THIRTY (30) DAVE			
WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MOI , cause the application to become A	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	action is non-final.				
3) Since this application is in condition for allowar	nce except for formal mat	ters, prosecution as to the merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.E). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7,9 and 11-13</u> is/are rejected.					
7)⊠ Claim(s) <u>8,10 and 14-19</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>21 January 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	tion is required if the drawing	(s) is objected to. See 37 CFR 1.121(d)			
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attache	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
	s have been received	•			
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	•				
* See the attached detailed Office action for a list	, ,,	received.			
Attachment(s)	л п	D. (DTO 440)			
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date			
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 01/21/05.		nformal Patent Application			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 4, 6, 9, and 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Lang (4,471,613).

Lang discloses an engine device (Figs. 1-9) comprising: a wheel 28 supported for rotation in a working direction about a generally horizontal wheel axis (Fig. 1), defining a rising side and a falling side of the wheel as the wheel rotates; a plurality of pockets 7 at spaced positions about a periphery of the wheel; a tank 16 surrounding the wheel for containing a fluid about the wheel; means to introduce gas into the pockets on the rising side of the wheel (Fig. 1); means to remove gas from the pockets on the falling side of the wheel (col. 2, lines 34-37); and a power take-off shaft 22 coupled to the wheel for rotation with the wheel about the wheel axis;

wherein the pockets are spaced radially outward from the shaft (Fig. 3);

wherein the pockets are collapsible (Fig. 3);

wherein the shaft is arranged to extend through a wall of the tank (Fig. 1) and wherein there is provided a sealing member 23 connected between the wall and the shaft;

wherein the means to introduce gas into the pockets comprises a source of gas under pressure which selectively communicates with each of the pockets (due to pump 31, Fig. 1);

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wherein the wheel includes a plurality of radially extending tubes 5 communicating between the pockets and the source of gas under pressure at the center of the wheel; and wherein the source of gas under pressure communicates through a shaft 1 of the wheel (Fig. 1).

3. Claims 1-5, 6, 9, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Hogg (1,091,575).

Hogg discloses an engine device (Figs. 1-3) comprising: a wheel 8 supported for rotation in a working direction about a generally horizontal wheel axis (Fig. 1), defining a rising side and a falling side of the wheel as the wheel rotates; a plurality of pockets 18 at spaced positions about a periphery of the wheel; a tank 1 surrounding the wheel for containing a fluid about the wheel; means to introduce gas into the pockets on the rising side of the wheel (Figs. 2, 3); means to remove gas from the pockets on the falling side of the wheel (Figs. 2, 3); and a power take-off shaft 5 coupled to the wheel for rotation with the wheel about the wheel axis;

wherein the pockets are spaced radially outward from the shaft (Fig. 1); wherein each pocket 18 tapers radially inwardly toward a leading side thereof (Fig. 1); wherein the pockets are collapsible (Fig. 1);

wherein each pocket comprises a stiff outer panel (Fig. 1) coupled to the periphery of the wheel by flexible side members (bellows) permitting the stiff outer panel to be displaced between an expanded position of the pocket in which the panel is spaced from the periphery of the wheel and a collapsed position of the pocket in which the panel is directly adjacent the periphery of the wheel;

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wherein means for introducing gas into the pockets comprises a source of gas under pressure 10 page 1, lines 40-45) which selectively communicates with each of the pockets; and wherein the wheel includes a plurality of radially extending tubes 12 communicating between the pockets and the source of gas under pressure at the center of the wheel (Fig. 1).

4. Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Kusmer (3,412,482).

Kusmer discloses an engine device (Figs. 1, 2, 4) comprising: a wheel 11 supported for rotation in a working direction about a generally horizontal wheel axis (Fig. 1), defining a rising side and a falling side of the wheel as the wheel rotates; a plurality of pockets 14 at spaced positions about a periphery of the wheel; a tank 18 surrounding the wheel for containing a fluid about the wheel; means to introduce gas into the pockets on the rising side of the wheel (Fig. 1); means to remove gas from the pockets on the falling side of the wheel; and a power take-off shaft 12 coupled to the wheel for rotation with the wheel about the wheel axis;

wherein the pockets are spaced radially outward from the shaft (Fig. 1); wherein the pockets are collapsible (Fig. 1); and

wherein each pocket comprises a stiff outer panel 16 (Fig. 1) coupled to the periphery of the wheel by flexible side members (bellows) permitting the stiff outer panel to be displaced between an expanded position of the pocket in which the panel is spaced from the periphery of the wheel and a collapsed position of the pocket in which the panel is directly adjacent the periphery of the wheel.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kusmer.

Kusmer discloses all the limitations except the tank does not have an outer wall which is

generally cylindrical about the wheel axis, spaced outwardly from the periphery of the wheel as

claimed.

Since the applicant has not disclosed that having the tank having an outer wall which is

generally cylindrical about the wheel axis, spaced outwardly from the periphery of the wheel

solves any stated problem or is for any particular purpose above the fact that the tank holds the

fluid to provide a working environment for the engine, and it appears that the tank of Kusmer

would perform equally well with the cylindrical shape as defined claimed by applicant, it would

have been an obvious matter of design choice to modify the tank of Kusmer by utilizing the

cylindrical shape as claimed.

Allowable Subject Matter

7. Claims 8, 10, and 14-19 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

Prior Art

The prior art made of record but not relied upon is considered pertinent to applicant's disclosure and consists of 2 patents.

Al-Mutairi (6,115,950) and Johnson (4,054,031) are cited to show different power generating devices using buoyancy of collapsible members.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Ninh Nguyen whose telephone number is (571) 272-4823. The examiner can be normally reached on Monday-Friday from 7:30 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look, can be reached at (571) 272-4820. The fax number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, please go to http://pair-direct.uspto.gov or contact the Electronic Business center (EBC)

at 866-217-9197 (toll-free).

NINH H. NGUYEN

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September 15, 2006